Appendix I: Incident Complexity Analysis

A GUIDE FOR ASSESSING FIRE COMPLEXITY

The following questions are presented as a guide to assist the Agency Administrator and staff in analyzing the complexity or predicted complexity of a fire situation. Because of the time required to assemble or move an Incident Management Team to a fire, this checklist should be completed when a fire escapes initial attack and be kept as part of the fire records. This document is prepared concurrently with the preparation of and attached to a new or revised Wildland Fire Situation Analysis. It must be emphasized that this analysis should, where possible, be based on predications to allow adequate time for assembling and transporting the ordered resources.

Use of the Guide:

- 1. Analyze each element and check the response yes or no.
- 2. If positive responses exceed, or are equal to, negative responses within any primary factor (A through G), the primary factor should be considered as a positive response.
- 3. If any three of the primary factors (A through G) are positive response, this indicates the fire situation is or is predicted to be Type I.
- 4. Factor H should be considered after all above steps. If more than two of these items are answered yes, and three or more of the other primary factors are positive responses, a Type I team should be considered. If the composites of H are negative, and there are fewer than three positive responses in the primary factors (A-G) a Type II team should be considered. If the answers to all questions in H are negative, it may be advisable to allow the existing overhead to continue action on the Fire.

GLOSSARY OF TERMS

Potential for blow-up conditions - Any combination of fuels, weather and topography excessively endangering personnel.

Threatened and endangered species - Threat to habitat of such species, or in the case of flora, threat to the species itself.

Smoke Management - Any situation which creates a significant public response, such as smoke in a metropolitan area or visual pollution in high-use scenic areas.

Extended exposure to unusually hazardous line conditions - Extended burnout or backfire situations, rock slides, cliffs extremely steep terrain, abnormal fuel situations such as frost killed foliage, etc.

Disputed Fire Management responsibility - Any wildland fire where responsibility for management if not agreed upon due to lack of agreements or different interpretations, etc.

Disputed fire policy - Differing fire policies between suppression agencies when the fire involves multiple ownership is an example.

Pre-existing controversies - These may or may not be fire management related. Any controversy drawing public attention to an area may present unusual problems to the fire overhead and local management.

Have overhead overextended themselves mentally or physically -

This is a critical item that requires judgment by the responsible agency. It is difficult to write guidelines for this judgment because of the wide differences between individuals. If, however, the Agency Administrator feels the existing overhead cannot continue to function efficiently and take safe and aggressive action due to mental or physical reasons, assistance is mandatory.

FIRE COMPLEXITY ANALYSIS

A. FIRE BEHAVIOR: Observed or Predicted	Yes/No	
1. Burning Index (from on-site measurement of weather conditions).		
Predicted to be above the 90% level using the major fuel model in		
which the fire is burning.		
 Potential exists for "blowup" conditions (fuel moisture, winds, etc). Crowning, profuse or long-range spotting. 		
conditions.		
Total		
B. RESOURCES COMMITTED:		
1. 200 or more personnel assigned.		
2. Three or more divisions.		
3. Wide variety of special support personnel.		
4. Substantial air operation which is not properly staffed.		
5. Majority of initial attack resources committed.		
Total		
C. RESOURCES THREATENED:		
1. Urban interface.		
2. Developments and facilities.		
3. Restricted, threatened or endangered species habitat.		
4. Cultural sites.		
5. Unique natural resources, special designation zones or wilderness.		
6. Other special resources.		
Total		
D. SAFETY:		
1. Unusually hazardous fire line conditions.		
2. Serious accidents or fatalities.		
3. Threat to safety of visitors from fire and related operations.		
4. Restrictions and/or closures in effect or being considered.		
5. No night operations in place for safety reasons.		
Tatal		

E. C	WNERSHIP:		Yes/No	
1.	Fire burning or threatening more tha	n one jurisdiction.		
2.	Potential for claims (damages).			
3.	Different or conflicting management	objectives.		
4.	Dispute over fire management response	nsibility.		
5.	Potential for unified command.			
		Total		
F. E	XTERNAL INFLUENCES:			
1.	Controversial wildland fire managen	nent policy.		
2.	Pre-existing controversies/relations	nips.		
3.	Sensitive media relationships.			
4.	Smoke management problems.			
5.	Sensitive political interests.			
6.	Other external influences.			
		Total		
G. C	HANGE IN STRATEGY			
1.	1. Change in strategy (from lower to higher intensity management).			
2.	2. Large amounts of unburned fuel within planned perimeter.			
3.	WFSA invalid or requires updating.			
		Total		
н. Е	XISTING OVERHEAD:			
1.	 Worked two operational periods without achieving initial objectives. Existing management organization ineffective. 			
2.				
3.	Overhead/IMT overextended mental	y and/or physically.		
4.	Incident actions plans, briefings, etc	., missing or poorly prepared.		
		Total		
Sig	nature			
Dat	e	Time		